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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/100,129	06/19/1998	PAUL HAVERSTOCK	52817.000035	8225

29315 7590 08/28/2002

MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC
ONE FOUNTAIN SQUARE
11911 FREEDOM DRIVE, SUITE 400
RESTON, VA 20190

EXAMINER

KANG, PAUL H

ART UNIT	PAPER NUMBER
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2152

DATE MAILED: 08/28/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/100,129

Applicant(s)

HAVERSTOCK ET AL.

Examiner

Paul H Kang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3, 8-9, 15-17, 19, 21-23 and 26-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Leone, US Pat. No. 5,745,360 in view of Buzsaki, US Pat. No. 5,987,422 and further in view of Jain et al., US Pat. No. 5,737,601.

3. As to claims 1, 8, 15, and 21, Leone discloses:

a server (fig. 2, WWW server (HTTPD) 8b);

one or more databases, in communication with the server, comprising one or more non-markup language objects (fig. 2, the user requests the server for book 7 stored in a database using a web browser, col. 4 lines 6-45); and

a workflow module that facilitates one or more object management tasks, of the server, associated with the one or more non-markup language objects according to a predefined process, wherein the workflow module performs the one or more object management tasks without user input. (Leone discloses a Dynamic Interchange Translation Agent which is extrapolated from CGI scripts for performing predetermined actions to manage workflow without user intervention, col. 3, line 12 – col. 4, line 45).

However, Leone does not explicitly disclose notification of at least one user that at least one action is required for the one or more non-markup language objects, and wherein that at least one user is someone other than the creator of the one or more non-markup language objects. Buzsaki teaches a method for notifying a user that an action needs to be taken (Buzsaki, abstract and col. 12, line 40 – col. 14, line 19).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have incorporated a notification system as taught by Buzsaki into the system of Leone for the purpose of enhancing user communication and access to data.

Leone-Buzsaki teach an integrated development module that enables manipulation of the one or more non-markup language objects in an integrated development environment (Customized web pages are generated; Leone, col. 5, line 9 – col. 6, line 19 and web based response pages are generated; Buzsaki, col. 13, line 46 – col. 14, line 37).

However, Leone-Buzsaki does not explicitly teach a replication module enabling replication using bi-directional replication process which ensures to access the most recent versions of the one or more non-markup language objects, wherein said non-markup language objects are stored in one or more non-markup language databases, wherein said non-markup language database assigns a unique identifier to the one or more non-markup language objects based on the unique identifier.

In the same field of endeavor, Jain teaches a method and apparatus for peer-to-peer data replication to ensure most recent version access and avoid conflicting updates. All updates are uniquely identified (See Jain, col. 3, line 53 – col. 4, line 40 and col. 6, line 37 – col. 8, line 29). It would have been obvious to one having ordinary skill in the art at the time the invention was

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made to have incorporated the data replication system of Jain into the non-markup language object retrieval system of Leone-Buzsaki for the purpose of ensuring the retrieval of the latest version.

4. As to claims 2, 9, 19, and 22, Leone-Buzsaki-Jain teaches that the CGI program locates, opens and converts the non-HTML document based on a user request for the document (Leone, col. 4, lines 6-45);

5. As to claim 3, 10, 16, 17, 23, and 26-33, Leone-Buzsaki-Jain discloses the a CGI program and a special agent component that distributed, routed and tracked an object according to a predetermined process (Leone, col. 4, lines 6-45).

6. Claims 4-7, 11-14, 18, 20, and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leone-Buzsaki-Jain as applied to claims 1-3, 8-9, 15-17, 19, 21-23 and 26-33 above, and further in view of Schutzman, et al., US Pat. No. 5,627,764 (herein referred to as Schutzman).

7. As to claims 4, 11, 18, and 24, Leone-Buzsaki discloses the invention substantially as claimed. However, Leone-Buzsaki-Jain does not specifically disclose *a notifying module that notifies the system user that an action is required for the one or more objects.*

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Schutzman teaches a workflow administration system which provides notification to the user in the same field of endeavor for the purpose of providing the use feedback for follow-up activity, workflow administration or routing (Schutzman, col. 3, line 9 – col. 4, line 55).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have incorporated the notifying module of Schutzman into the client/server system of Leone-Buzsaki-Jain in order to automate the system while maintaining user control and knowledge of internal functions of the system, thereby increasing system reliability and efficiency.

8. As to claims 5, 12, 20, and 25, Leone-Buzsaki-Jain -Schutzman teaches a translator for translating non-markup language objects into markup language format (Leone, col. 4, lines 6-45).

9. As to claims 6 and 13, Leone-Buzsaki-Jain -Schutzman teaches a client/server system comprising a HTTP server module (Leone, fig. 2 and col. 4, lines 6-45).

10. As to claims 7 and 14, Leone-Buzsaki-Jain -Schutzman teaches a client/server system comprising a non-markup language server (non-markup language processing functionality resides on server 3; Leone, col. 4, lines 6-45).

Supplemental Rejection

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11. Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Leone, US Pat. No. 5,745,360 in view of Bromley, US Pat. No. 5,987,422 and further in view of Jain et al., US Pat. No. 5,737,601.

12. As to claims 1, 8, 15, and 21, Leone discloses:

a server (fig. 2, WWW server (HTTPD) 8b);

one or more databases, in communication with the server, comprising one or more non-markup language objects (fig. 2, the user requests the server for book 7 stored in a database using a web browser, col. 4 lines 6-45); and

a workflow module that facilitates one or more object management tasks, of the server, associated with the one or more non-markup language objects according to a predefined process, wherein the workflow module performs the one or more object management tasks without user input. (Leone discloses a Dynamic Interchange Translation Agent which is extrapolated from CGI scripts for performing predetermined actions to manage workflow without user intervention, col. 3, line 12 – col. 4, line 45).

However, Leone does not explicitly disclose notification of at least one user that at least one action is required for the one or more non-markup language objects, and wherein that at least one user is someone other than the creator of the one or more non-markup language objects. Bromley teaches a method for notifying a user that an action needs to be taken (Bromley, col. 4, line 22 – col. 5, line 26 and col. 31, line 20 – col. 32, line 50).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to have incorporated a notification system as taught by Bromley into the system of Leone for the purpose of enhancing user communication and access to data.

Leone-Bromley teach an integrated development module that enables manipulation of the one or more non-markup language objects in an integrated development environment (Customized web pages are generated; Leone, col. 5, line 9 – col. 6, line 19).

However, Leone-Bromley does not explicitly teach a replication module enabling replication using bi-directional replication process which ensures to access the most recent versions of the one or more non-markup language objects, wherein said non-markup language objects are stored in one or more non-markup language databases, wherein said non-markup language database assigns a unique identifier to the one or more non-markup language objects based on the unique identifier.

In the same field of endeavor, Jain teaches a method and apparatus for peer-to-peer data replication to ensure most recent version access and avoid conflicting updates. All updates are uniquely identified (See Jain, col. 3, line 53 – col. 4, line 40 and col. 6, line 37 – col. 8, line 29). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have incorporated the data replication system of Jain into the non-markup language object retrieval system of Leone-Buzsaki for the purpose of ensuring the retrieval of the latest version.

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13. As to claims 2, 9, 19, and 22, Leone-Bromley-Jain teaches that the CGI program locates, opens and converts the non-HTML document based on a user request for the document (Leone, col. 4, lines 6-45);

14. As to claim 3, 10, 16, 17, 23, and 26-33, Leone-Bromley-Jain discloses the a CGI program and a special agent component that distributed, routed and tracked an object according to a predetermined process (Leone, col. 4, lines 6-45).

15. As to claims 4, 11, 18, and 24, Leone-Bromley-Jain discloses a notifying module that notifies the system user that an action is required for the one or more objects (Bromley, col. 31, line 20 – col. 32, line 50).

16. As to claims 5, 12, 20, and 25, Leone-Bromley-Jain teaches a translator for translating non-markup language objects into markup language format (Leone, col. 4, lines 6-45).

17. As to claims 6 and 13, Leone-Bromley-Jain teaches a client/server system comprising a HTTP server module (Leone, fig. 2 and col. 4, lines 6-45).

18. As to claims 7 and 14, Leone-Bromley-Jain teaches a client/server system comprising a non-markup language server (non-markup language processing functionality resides on server 3; Leone, col. 4, lines 6-45).

Response to Arguments

Applicant's arguments with respect to claims 1-33 have been considered but are moot in view of the new ground(s) of rejection. The Applicant argued in substance that the prior art of record failed to teach the newly added features "bi-directional replication" and "integrated development environment." The new grounds of rejection teaches these features.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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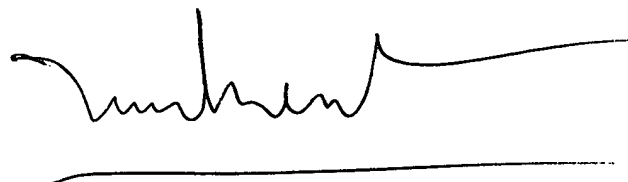
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul H Kang whose telephone number is (703) 308-6123. The examiner can normally be reached on 9 hour flex. First Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.


Paul H Kang
Examiner
Art Unit 2152

August 26, 2002



LE HIEN LUU
PRIMARY EXAMINER